

SERIAL NO. 10/039518

PATENT

AMENDMENTS TO THE SPECIFICATION

Kindly replace the Title of the Invention with the following amended title:

Method and apparatus for multiple byte or page mode programming ~~and reading and for erasing~~
of a flash memory array

Kindly delete paragraph [0018].

Kindly delete paragraph [0019].

Please add the following new paragraphs after paragraph [0020]:

[0020.1] Yet another embodiment of the present invention is a NOR-type memory integrated circuit comprising a plurality of word select lines; a plurality of bit lines; a plurality of source lines; a memory array having a plurality of adjustable threshold voltage memory transistors, each being programmable using channel hot electron injection and having a source coupled to one of the source lines, a drain coupled to one of the bit lines, a floating gate overlying a channel defined in a substrate body region between the source and the drain, and a control gate overlying the floating gate and coupled to one of the word select lines; a voltage source for applying a body voltage to the substrate body regions containing the channels; a voltage source for applying a source voltage to the sources of at least a first and a second of the memory transistors via a common one of the source lines; a voltage source for applying a drain programming voltage to the drains of the first and second memory transistors via a common one of the column lines, the source and drain programming voltages being sufficient to generate channel hot electrons in the respective channels of the first and second memory transistors; a voltage source for applying a select voltage to the gate of the first memory transistor via a first one of the word select lines, the select voltage having a polarity and magnitude relative to the body voltage sufficient to attract the hot electrons of the first memory transistor and change the threshold voltage thereof to a programmed state; and a voltage source for applying an unselect voltage to the gate of the second memory cell via a second one of the word select lines, the unselect voltage having a polarity and magnitude relative to the first voltage sufficient to repel the hot electrons of the second memory transistor and deter change in the threshold voltage thereof.